

Class Title: Environmental Engineer
Organizations/Work Settings: Department of Environmental Quality

Class Code: 37227
Class Established: 08/31/88
Revised: 03/30/90
Pay Grade: 21

WORK DESCRIPTION:

Reviews construction plans and/or inspects newly constructed/remodeled water/wastewater treatment facilities/systems, hazardous waste and solid waste disposal facilities, or air pollution control sources to ensure compliance with engineering-oriented environmental control rules, regulations, and specifications; confers with submitter to resolve technical problems; recommends issuance of permits; inspects pollution sources to ensure required environmental control procedures are maintained; investigates complaints of noncompliance where engineering expertise is required.

WORK CONDITIONS:

Facility inspections and field investigations necessitate exposure to variable weather conditions and occasionally to hazardous materials/conditions.

SUPERVISION:

Under limited supervision to general direction, exercises independent judgment in plan review, site/facility inspection, and complaint investigation activities requiring engineering expertise. Decisions regarding program policy, rules, and regulations interpretation are cleared through supervisor.

KNOWLEDGES APPLIED:

Methods and techniques of engineering analysis as applied to questions of environmental control.

Principles and practices of engineering as relates to environmental control facilities, systems, operating procedures, instrumentation, and related control devices.

Federal and State statutes and agency standards, policies, and procedures applicable to the area of assignment.

Technical engineering records and reports available for use in the work unit.

WORK RESULTS/PRODUCTS:

Approved construction plans; completed inspections of pollution sources; completed investigation reports and recommendations.

RESPONSIBILITY:

For timely and accurate completion of all work assignments; scheduling and prioritizing work assignments within established time frames; scheduling and reviewing the work of subordinate technical and/or professional staff assigned to assist with special projects.

AUTHORITY:

To approve or disapprove construction plans; notify pollution source owners of noncompliance with agency standards and necessary remedial action.

SKILLS APPLIED:

Applying environmental engineering principles, practices, methods, and standards to facilitate the analysis/evaluation of construction plans, the inspection of regulated sites/facilities, and the investigation of complaints.

Interacting with agency staff, other governmental regulatory officials, regulated business/industrial community staff, and the public to establish and maintain effective working relationships, obtain information, and resolve problems.

Communicating effectively orally and in writing.

Identifying and resolving engineering oriented environmental control problems.

WORK ACTIVITIES (Characteristic Tasks) - MAJOR and minor:

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EXAMINES AND ANALYZES CONSTRUCTION OR MODIFICATION PLANS FOR WATER/WASTEWATER SYSTEMS; EVALUATES THESE IN TERMS OF ENVIRONMENTAL IMPACT AND WATER QUALITY CONTROL.

INSPECTS WATER/WASTEWATER SYSTEMS AND SOLID/HAZARDOUS WASTE DISPOSAL FACILITIES TO DETERMINE COMPLIANCE WITH STATE AND FEDERAL STANDARDS AND ACCEPTABLE SANITARY ENGINEERING PRACTICE.

DEVELOPS TECHNIQUES AND GUIDELINES FOR UNIFORM ENGINEERING INSPECTIONS AND REPORTING OF INSPECTIONS OF PUBLIC WATER SUPPLIES.

MAKES ENGINEERING CALCULATIONS AND ANALYSES TO EVALUATE PERMIT APPLICATIONS AND PLANS AND TO DETERMINE POTENTIAL FOR DEVELOPMENT OF POLLUTION SOURCES; SUCH CALCULATIONS INCLUDE DETERMINATIONS OF POLLUTANTS TO BE EMITTED, QUANTITIES, ABATEMENT EQUIPMENT AVAILABLE, AND ITS EFFECTIVENESS.

INSPECTS INDUSTRIAL OR COMMERCIAL PLANTS AND FACILITIES AS SOURCES OF ENVIRONMENTAL POLLUTION, EXAMINES CONTROL EQUIPMENT, AND GATHERS DATA AS BASIS FOR DECISIONS REGARDING ENVIRONMENTAL POLLUTION.

OBSERVES, ANALYZES, AND EVALUATES RESULTS OF AIR POLLUTION SOURCE EMISSION TESTS: EVALUATES AIR TESTING PROCEDURES, LABORATORY ANALYSIS PROCEDURE, AND THE TECHNICAL EVALUATIONS MADE OF THE DATE COLLECTED.

CONFERS WITH AND ADVISES REPRESENTATIVES OF LOCAL GOVERNMENT OR PRIVATE INDUSTRY REGARDING TECHNICAL ASPECTS OF POLLUTION CONTROL.

REVIEWS SOLID/HAZARDOUS WASTE MANAGEMENT PLANS SUBMITTED BY LOCAL GOVERNMENT AND INDUSTRIES.

INSPECTS SOLID/HAZARDOUS WASTE MANAGEMENT FACILITIES AND EQUIPMENT TO DETERMINE OPERATOR'S COMPLIANCE WITH LAW AND REGULATIONS ENFORCED BY THE STATE.

READS AND INTERPRETS STATE, FEDERAL, AND LOCAL CODES, LAWS AND REGULATIONS IN ORDER TO PREPARE REPORTS OR UTILIZE IN WORK ACTIVITIES.

Performs related work as required.

MINIMUM QUALIFICATIONS:

Two years of professional level engineering experience (appropriate to the area of assignment) in an environmental protection/control program in the public or private sector, and registration as a professional engineer in the State of Arizona, or proof of eligibility for reciprocity at the time of appointment.

Special Selection Factors:

None.